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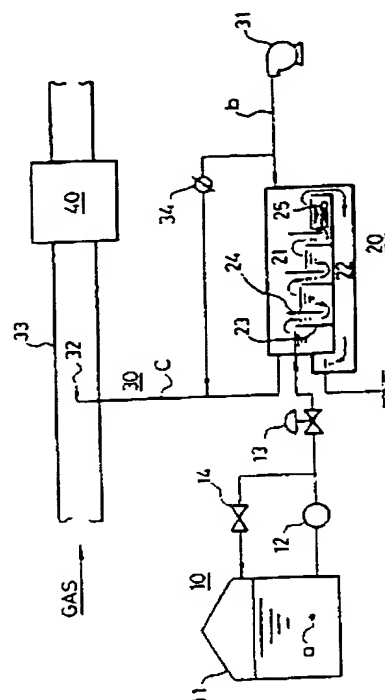
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TITLE : AMMONIA GAS PRODUCING
APPARATUS FROM AMMONIA WATER



ABSTRACT : PURPOSE: To separate NH_3 gas by heating ammonia water.

CONSTITUTION: Once stored ammonia water (a) in an ammonia water tank 11 by an ammonia water storage apparatus 10 is sent to an NH_3 gas producing apparatus 20 by a pump 12. The flow rate of the ammonia water to meet the necessary amount of NH_3 for a denitrification apparatus 40 is controlled by an adjusting valve 13. The ammonia water (a) sent to the NH_3 gas producing apparatus 20 is heated so as to evaporate and separate saturated NH_3 . NH_3 is evaporated and separated from the ammonia water perfectly and the ammonia water turns into harmless hot water. Meanwhile, supersaturated NH_3 evaporated by heating is flow-transported by sending air from an air fan 31, and the resulting diluted NH_3 (c) is injected to a flue 33 through a nozzle grid 32 set in the upper stream of a denitrification apparatus 40. By this method, ammonia gas is obtained from an ammonia water. Since NH_3 is injected into the flue, even if sulfur oxide is present therein, corrosion of a tube does not occur and troubles of choking the tube with dust is prevented.

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